

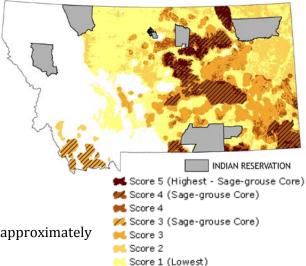
# Montana Fish, Wildlife & Parks Crucial Areas Assessment



#### **NATIVE GAME SPECIES**

#### **Prairie Grouse Habitat**

**SUMMARY**: This layer depicts the relative value of areas based upon the specific habitat requirements Sharp-tailed grouse and sagegrouse. Values are cumulative, but it is important to realize that an area with a lower cumulative value can still contain high value habitat for just one species.

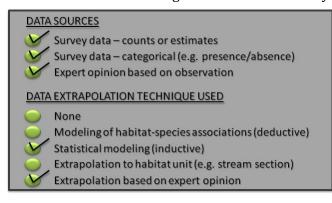


**MEASUREMENT UNIT:** Public land survey sections - approximately one square mile.

**MAPPING CONSIDERATIONS:** Indian reservations and national parks not evaluated due to lack of data.

### **DATA SOURCE(S) / QUALITY:**

**Prairie Grouse**: *Metric Evaluated*: Core habitat areas, lek areas, and habitat suitability. *Species*: sage-grouse, sharp-tail Grouse. *Data layers*: sage-grouse and sharp-tail grouse lek locations and observations collected via ground and aerial surveys by FWP and Bureau of Land Management



biologists – maintained in FWP sage-grouse database; Sage-grouse core areas – developed and maintained by FWP with input from Bureau of Land Management. Publicly available layer based expert knowledge review of sage-grouse habitat suitability model using lek locations and limited to areas of highest male density. Sharp-tail grouse habitat suitability model developed using lek locations and reviewed by FWP biologists. Resolution is 90 meters.

**METHODS**: Prairie grouse habitat was assigned 3 points to sage-grouse core areas and outside of core areas, 2 points were assigned to sage-grouse lek areas. Two points were assigned to highly suitable sharp-tail grouse habitat and 1 point to moderately suitable sharp-tail grouse habitat. In areas with species overlap, values were cumulative to a maximum value of 5 points. Values were only calculated in prairie areas where prairie grouse were expected. The contribution to the overall possible terrestrial game score for each section was only considered in these prairie areas. Thus in western forests, the total possible score for a section only included forest carnivores, big game winter habitat, and bighorn sheep/mountain goat. The final summed value was rescaled to 0 to 1 before being combined with the other species categories.



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**FINAL CATEGORIZATION**: The resulting scores ranged from 0 to 5. Percentage of land area in each class is shown in the table.

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| CATEGORY          | PERCENT OF<br>STATE |
|-------------------|---------------------|
| SCORE 5 (Highest) | 2.6 %               |
| SCORE 4           | 9.3 %               |
| SCORE 3           | 14.3 %              |
| SCORE 2           | 11.5 %              |
| SCORE 1(Lowest)   | 29.7 %              |